

Serial Number: 09/717,641A

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APR 15 2003

TECH CENTER 1600/2900

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☒ Deleted: ☒ non-ASCII "garbage" at the beginning end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☐ Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

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1600

RAW SEQUENCE LISTING

DATE: 04/10/2003

PATENT APPLICATION: US/09/717,641A

TIME: 21:28:46

Input Set : N:\CrF4\04092003\I717641A.raw

Output Set: N:\CRF4\04102003\I717641A.raw

P6

1 <110> APPLICANT: Garrard, Lisa J.
 2 Henner, Dennis J.
 3 Bass, Steven
 4 Greene, Ronald
 5 Lowman, Henry B.
 6 Wells, James A.
 7 Matthews, David J.
 8 <120> TITLE OF INVENTION: ENRICHMENT METHOD FOR VARIANT PROTEINS WITH ALTERED
 9 BINDING PROPERTIES
 10 <130> FILE REFERENCE: P0645P4D2C3
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/717,641A
 C--> 12 <141> CURRENT FILING DATE: 2000-11-21
 13 <150> PRIOR APPLICATION NUMBER: US 08/922,345
 14 <151> PRIOR FILING DATE: 1997-09-03
 15 <150> PRIOR APPLICATION NUMBER: US 08/463,587
 16 <151> PRIOR FILING DATE: 1995-06-05
 17 <150> PRIOR APPLICATION NUMBER: US 08/050,058
 18 <151> PRIOR FILING DATE: 1993-04-30
 19 <150> PRIOR APPLICATION NUMBER: PCT/US91/09133
 20 <151> PRIOR FILING DATE: 1991-12-03
 21 <150> PRIOR APPLICATION NUMBER: US 07/743,614
 22 <151> PRIOR FILING DATE: 1991-08-09
 23 <150> PRIOR APPLICATION NUMBER: US 07/715,300
 24 <151> PRIOR FILING DATE: 1991-06-14
 25 <150> PRIOR APPLICATION NUMBER: US 07/683,400
 26 <151> PRIOR FILING DATE: 1991-04-10
 27 <150> PRIOR APPLICATION NUMBER: US 07/621,667
 28 <151> PRIOR FILING DATE: 1990-12-03
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 33 <212> TYPE: DNA
 34 <213> ORGANISM: Artificial sequence
 35 <220> FEATURE:
 36 <223> OTHER INFORMATION: Synthetic
 37 <400> SEQUENCE: 1
 38 ggcagctgtg gcttctagag tggcggcggc tctggt 36
 40 <210> SEQ ID NO: 2
 41 <211> LENGTH: 36
 42 <212> TYPE: DNA
 43 <213> ORGANISM: Artificial sequence
 44 <220> FEATURE:
 45 <223> OTHER INFORMATION: Synthetic

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Input Set : N:\CrF4\04092003\I717641A.raw

Output Set: N:\CRF4\04102003\I717641A.raw

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50 <211> LENGTH: 33
51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial sequence
53 <220> FEATURE:
54 <223> OTHER INFORMATION: Synthetic
55 <400> SEQUENCE: 3
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58 <210> SEQ ID NO: 4
59 <211> LENGTH: 30
60 <212> TYPE: DNA
61 <213> ORGANISM: Artificial sequence
62 <220> FEATURE:
63 <223> OTHER INFORMATION: Synthetic
64 <400> SEQUENCE: 4
65 caataataac gggctagcca aaagaactgg 30
67 <210> SEQ ID NO: 5
68 <211> LENGTH: 24
69 <212> TYPE: DNA
70 <213> ORGANISM: Artificial sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Synthetic
73 <400> SEQUENCE: 5
74 cacgacagaa ttcccgactg gaaa 24
76 <210> SEQ ID NO: 6
77 <211> LENGTH: 23
78 <212> TYPE: DNA
79 <213> ORGANISM: Artificial sequence
80 <220> FEATURE:
81 <223> OTHER INFORMATION: Synthetic
82 <400> SEQUENCE: 6
83 ctgtttctag agtgaaattg tta 23
85 <210> SEQ ID NO: 7
86 <211> LENGTH: 21
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Synthetic
91 <400> SEQUENCE: 7
92 acattcctgg gtaccgtgca g 21
94 <210> SEQ ID NO: 8
95 <211> LENGTH: 63
96 <212> TYPE: DNA
97 <213> ORGANISM: Artificial sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: Synthetic
100 <220> FEATURE:

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Output Set: N:\CRF4\04102003\I717641A.raw

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101 <221> NAME/KEY: unsure
102 <222> LOCATION: 21-22, 27-28, 33-34, 39-40
103 <223> OTHER INFORMATION: unknown base
104 <400> SEQUENCE: 8
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106      tgccgctctg tgg 63
108 <210> SEQ ID NO: 9
109 <211> LENGTH: 24
110 <212> TYPE: DNA
111 <213> ORGANISM: Artificial sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: Synthetic
114 <400> SEQUENCE: 9
115      aaggtctcca catacctgag gatc 24
117 <210> SEQ ID NO: 10
118 <211> LENGTH: 33
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: Synthetic
123 <400> SEQUENCE: 10
124      atggacaagg tgtcgacata cctgcgcatac gtg 33
126 <210> SEQ ID NO: 11
127 <211> LENGTH: 36
128 <212> TYPE: DNA
129 <213> ORGANISM: Artificial sequence
130 <220> FEATURE:
131 <223> OTHER INFORMATION: Synthetic
132 <400> SEQUENCE: 11
133      ggcagctgtg gattctagag tggcgggtggc tctggt 36
135 <210> SEQ ID NO: 12
136 <211> LENGTH: 12
137 <212> TYPE: PRT
138 <213> ORGANISM: Artificial sequence
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Synthetic
141 <400> SEQUENCE: 12
142      Gly Ser Cys Gly Phe Glu Ser Gly Gly Gly Ser Gly
143      1          5          10
145 <210> SEQ ID NO: 13
146 <211> LENGTH: 27
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Synthetic
151 <400> SEQUENCE: 13
152      cggactgggc agatattcaa gcagacc 27
154 <210> SEQ ID NO: 14
155 <211> LENGTH: 38

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Output Set: N:\CRF4\04102003\I717641A.raw

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156 <212> TYPE: DNA
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158 <220> FEATURE:
159 <223> OTHER INFORMATION: Synthetic
160 <400> SEQUENCE: 14
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163 <210> SEQ ID NO: 15
164 <211> LENGTH: 30
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: Synthetic
169 <400> SEQUENCE: 15
170      cgcatcgtgc agtcagatc tgtggagggc 30
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173 <211> LENGTH: 66
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: Synthetic
178 <220> FEATURE:
179 <221> NAME/KEY: unsure
180 <222> LOCATION: 33-34, 39-40, 45-46, 51-52
181 <223> OTHER INFORMATION: unknown base
182 <400> SEQUENCE: 16
W--> 183      gttactctac tgctttcagg aaggacatgg acnnsctcnn sacannscgt 50
184      nnsatcgtgc agtgca 66
186 <210> SEQ ID NO: 17
187 <211> LENGTH: 64
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Synthetic
192 <220> FEATURE:
193 <221> NAME/KEY: unsure
194 <222> LOCATION: 19-20, 25-26, 31-32, 37-38
195 <223> OTHER INFORMATION: unknown base
196 <400> SEQUENCE: 17
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198      cctgaagcag taga 64
200 <210> SEQ ID NO: 18
201 <211> LENGTH: 25
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Synthetic
206 <400> SEQUENCE: 18
207      gcctttgaca ggtaccagga gtttg 25
209 <210> SEQ ID NO: 19

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RAW SEQUENCE LISTING

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Input Set : N:\CrF4\04092003\I717641A.raw

Output Set: N:\CRF4\04102003\I717641A.raw

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210 <211> LENGTH: 33
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Synthetic
215 <400> SEQUENCE: 19
216      ccaactatac cactctcgag gtctattcga taa 33
218 <210> SEQ ID NO: 20
219 <211> LENGTH: 66
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Synthetic
224 <220> FEATURE:
225 <221> NAME/KEY: unsure
226 <222> LOCATION: 10-11, 22-23, 34-35, 43-44
227 <223> OTHER INFORMATION: unknown base
228 <400> SEQUENCE: 20
W--> 229      tcgaggctcn nsgacaacgc gnnscctgcgt gctnnscgtc ttnnscagct 50
230      gccctttgac acgtac 66
232 <210> SEQ ID NO: 21
233 <211> LENGTH: 58
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: Synthetic
238 <220> FEATURE:
239 <221> NAME/KEY: unsure
240 <222> LOCATION: 19-20, 28-29, 40-41, 52-53
241 <223> OTHER INFORMATION: unknown base
242 <400> SEQUENCE: 21
W--> 243      gtgtcaaagg ccagctgsnn aagacgsnna gcacgcagsn ncgcgttgct 50
244      snngagcc 58
246 <210> SEQ ID NO: 22
247 <211> LENGTH: 65
248 <212> TYPE: DNA
249 <213> ORGANISM: Artificial sequence
250 <220> FEATURE:
251 <223> OTHER INFORMATION: Synthetic
252 <220> FEATURE:
253 <221> NAME/KEY: unsure
254 <222> LOCATION: 17-18, 29-30, 41-42, 53-54
255 <223> OTHER INFORMATION: unknown base
256 <400> SEQUENCE: 22
W--> 257      gttactctac tgcttcnnsa aggacatgnn saaggtcagc nnstacctgc 50
258      gcnnsgtgca gtgca 65
260 <210> SEQ ID NO: 23
261 <211> LENGTH: 64
262 <212> TYPE: DNA

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/717,641A

DATE: 04/10/2003
TIME: 21:28:47

Input Set : N:\Crf4\04092003\I717641A.raw
Output Set: N:\CRF4\04102003\I717641A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; N Pos. 21,22,27,28,33,34,39,40
Seq#:16; N Pos. 33,34,39,40,45,46,51,52
Seq#:17; N Pos. 19,20,25,26,31,32,37,38
Seq#:20; N Pos. 10,11,22,23,34,35,43,44
Seq#:21; N Pos. 19,20,28,29,40,41,52,53
Seq#:22; N Pos. 17,18,29,30,41,42,53,54
Seq#:23; N Pos. 16,17,28,29,40,41,52,53
Seq#:30; N Pos. 11,12,14,15
Seq#:31; N Pos. 15,16,18,19
Seq#:37; N Pos. 7,8,9
Seq#:101; Xaa Pos. 3

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/717,641A

DATE: 04/10/2003

TIME: 21:28:47

Input Set : N:\Crf4\04092003\I717641A.raw

Output Set: N:\CRF4\04102003\I717641A.raw

L:11 M:270 C: Current Application Number differs, Wrong Format
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
M:341 Repeated in SeqNo=16
L:197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:229 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
M:341 Repeated in SeqNo=21
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
M:341 Repeated in SeqNo=22
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
M:341 Repeated in SeqNo=23
L:474 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:1176 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:101
L:1180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:0